

CLAIMS

1. A plasma display panel comprising:

a first electrode and a second electrode which are disposed in parallel with each other on a first substrate;

a third electrode disposed on a second substrate in a direction orthogonal to the first electrode and the second electrode, the second substrate being disposed to face the first substrate with a discharge space therebetween;

a fourth electrode disposed on the second substrate in such a manner as to be parallel with the first electrode and the second electrode; and

a first discharge space and a second discharge space which are formed on the second substrate by being partitioned by a barrier rib, wherein

a main discharge cell for performing a discharge with the first electrode, the second electrode and the third electrode is formed in the first discharge space, and a priming discharge cell for performing a discharge with the fourth electrode and at least one of the first electrode and the second electrode is formed in the second discharge space, and

in the second discharge space, the fourth electrode is formed on a dielectric layer and is disposed closer to the first electrode and the second electrode than the third electrode.

2. The plasma display panel according to claim 1, wherein the third electrode is covered with the dielectric layer.

3. The plasma display panel according to claim 1 or 2, wherein

the barrier rib is formed of a longitudinal rib part extending in the

direction orthogonal to the first electrode and the second electrode, and a lateral rib part for forming a gap part continuous in parallel with the first electrode and the second electrode, and

the gap part forms the second discharge space.

4. A method for manufacturing a plasma display panel, comprising the steps of:

forming a main discharge cell in a first discharge space, the main discharge cell including:

a first electrode and a second electrode which are disposed in parallel with each other on a first substrate;

a third electrode disposed on a second substrate in a direction orthogonal to the first electrode and the second electrode, the second substrate being disposed to face the first substrate with a discharge space therebetween;

a fourth electrode disposed on the second substrate in such a manner as to be parallel with the first electrode and the second electrode; and

the first discharge space and a second discharge space which are formed on the second substrate by being partitioned by a barrier rib, and the main discharge cell performing a discharge with the first electrode, the second electrode and the third electrode; and

forming a priming discharge cell in the second discharge space, the priming discharge cell performing a discharge with the fourth electrode and at least one of the first electrode and the second electrode, wherein

the step of forming the second discharge space includes the steps of:

forming a dielectric layer continuous in a longitudinal direction

orthogonal at least to the third electrode; and

forming the fourth electrode continuous on the dielectric layer.

5. The method for manufacturing the plasma display panel according to claim 4, wherein

the step of forming the dielectric layer includes the step of filling dielectric paste into the second discharge space by discharging the dielectric paste at least through a nozzle.

6. The method for manufacturing the plasma display panel according to claim 4, wherein

the step of forming the fourth electrode includes the step of filling electrode material paste into the second discharge space by discharging the electrode material paste at least through a nozzle.

7. The method for manufacturing the plasma display panel according to claim 5 further comprising the step of continuously filling the dielectric layer after the barrier rib is patterned on the second substrate.

8. The method for manufacturing the plasma display panel according to claim 7, wherein

the barrier rib and the dielectric layer concurrently undergo firing and solidification.